**[0057]** In this illustrative embodiment, the third medical tray **880** further includes a blade receptacle **882** for discarding scalpel blades. In one embodiment, a scalpel blade **883** can be inserted into a scalpel blade remover **883** that pops the blade from the handle. A magnetic surface **884** in the blade receptacle **882** retains the discarded blades within the third medical tray **880**. An adhesive strip can be substituted for the magnet. An optional hinge **899** can be included between the blade receptacle **882** and the needle containment receptacle **881** so that the two can be pivotally rotated towards each other, upon detachment from the other trays, to safely and securely contain the sharp objects, i.e., the scalpel blades and suture needles, therein.

**[0058]** In practice, a medical services provider may place the system **800** of FIG. **8** on a stand during a medical procedure. Medicine cups could be placed within the cup holders **870**,**871**,**872** of the second medical tray **802**, while the appropriate scalpels and syringes may be placed in the medical implement receivers **810**,**811**,**812**. The slots **820**,**821** of the medical implement receivers **810**,**811**,**812** could then be used to remove and reattach syringe needle caps to the syringes. While the syringes were in use, the syringe needle cap could remain within the slots **820**,**821** so that it is ready for reattachment. Any suture needles, syringe needles, or scalpel blades could then be discarded in the third medical tray **880** after use.

**[0059]** Other optional features may be included as well. For example, syringe needle cap holders **893**,**894**,**895** can be provided. In such a configuration, when the syringes are in use, a medical services provider has the option of leaving the needle caps in the slots **820**,**821** of the medical implement receivers **810**,**811**,**812**, or alternatively inserting them into the syringe needle cap holders **893**,**894**,**895**. Additionally, syringe receiving recesses **896**,**897**,**898** can be provided to permit temporary resting places for syringes between medicine extractions from cups in the cup holders **870**,**871**,**872**.

**[0060]** In the foregoing specification, specific embodiments of the present invention have been described. However, one of ordinary skill in the art appreciates that various modifications and changes can be made without departing from the scope of the present invention as set forth in the claims below. Thus, while preferred embodiments of the invention have been illustrated and described, it is clear that the invention is not so limited. Numerous modifications, changes, variations, substitutions, and equivalents will occur to those skilled in the art without departing from the spirit and scope of the present invention as defined by the following claims. Accordingly, the specification and figures are to be regarded in an illustrative rather than a restrictive sense, and all such modifications are intended to be included within the scope of present invention. The benefits, advantages, solutions to problems, and any element(s) that may cause any benefit, advantage, or solution to occur or become more pronounced are not to be construed as a critical, required, or essential features or elements of any or all the claims.

**1**. A holder for medical implements, comprising:

a base member;

at least one medical implement receiver, the at least one medical implement receiver comprising a pair of retention members extending from the base member, wherein opposing faces of each retention member define an implement receiving recess therebetween, each retention member comprising a slot extending into each retention member from a face disposed along the implement receiving recess; and

a mechanical stop wall extending from the base member, separated from the at least one medical implement receiver by at least a portion of a width of the base member;

wherein each retention member is configured to receive either a first medical implement or a second medical implement, wherein the first medical implement and the second medical implement are different.

**2**. The holder of claim **1**, wherein the slot is configured to receive a portion of a syringe needle cap rim.

**3**. The holder of claim **1**, wherein the opposing faces are separated by a length of between 1.27 millimeters and 8.89 millimeters.

**4**. The holder of claim **2**, wherein the face comprises a face portion extending from the slot towards an edge of the holder, wherein the face portion has a length configured to fit between the syringe needle cap rim and a Luer fitting on a syringe.

**5**. The holder of claim **2**, wherein the slot has a width of between 0.75 millimeters and 1.5 millimeters, wherein a retention member height is between 1 centimeter and 2.1 centimeters.

**6**. The holder of claim **1**, further comprising an adhesive patch coupled to a base of the holder.

**7**. The holder of claim **1**, wherein the opposing faces are pliable and are configured as cantilever surfaces for retaining a medical implement when inserted into the implement receiving recess.

**8**. The holder of claim **1**, further comprising one or more separating walls extending from the mechanical stop wall towards the at least one medical implement receiver along a portion of a width of the base member.

**9**. The holder of claim **1**, further comprising one or more separation baffles disposed between the mechanical stop wall and the at least one medical implement receiver.

**10**. The holder of claim **1**, further comprising a mechanical connector extending from the holder and configured to attach to a medical container.

**11**. The holder of claim **10**, wherein the medical container comprises a cup holder.

**12**. The holder of claim **10**, wherein the medical container comprises a needle containment receptacle.

**13**. The holder of claim **10**, wherein the medical container comprises a second holder for the medical implements.

**14**. A system for containing medical implements, the system comprising:

a first medical tray comprising one or more medical implement receivers, each medical implement receiver comprising a pair of retention members having opposing faces that define an implement receiving recess, each opposing face comprising a slot extending into each retention member, wherein the pair of retention members is configured to permit removal of a syringe needle cap with only one hand; and

a second medical tray attached to the first medical tray, the second medical tray defining one or more cup holders.

**15**. The system of claim **14**, wherein the first medical tray and the second medical tray are selectively detachable from each other.

**16**. The system of claim **14**, further comprising a third medical tray coupled to one of the first medical tray or the